July 7, 2006

ENVIRONOVA
Environmental Health & Safety Management

Project 0819053

Mr. Keller
BRAC Environmental Coordinador
1 Berma Road, Building 82
Novato, CA 94949

INDUSTRIAL HYGIENE MONITORING REPORT

Dear Mr. Keller;

EnviroNova is pleased to present this letter report which summarizes the findings of the Industrial Hygiene Monitoring investigation for the BRAC Inboard Remedial Action and Wetlands Restoration Projects located at the former Hamilton Air Force Base (Site) located in Novato, California. The investigation was conducted on May 31, 2006. The objective of the investigation was to conduct a one (1) day evaluation of residential exposure to airborne particulates and noise during active soil transportation activities at the Site along Todd Road.

EnviroNova coordinated the monitoring equipment set-up with the transport truck schedule to ensure that sample collection corresponded with the transportation activities. Pete Rice CIH, CSP, REHS, with EnviroNova also provided onsite guidance and recommendations for monitoring equipment set-up, sample collection and analytical methodologies.

SUMMARY OF FINDINGS

- Thirteen empty tractor trailer trucks arrived at the Site at approximately 8:05 am on May 31 and it took approximately nine minutes for the trucks to travel past the residential homes to the loading area. The approximate distance from the truck route to the closest homes ranged from approximately 20-30 feet with an eight foot high masonry wall between the yards and the route. The trucks were led, in a convoy, by a water truck dispersing water on the asphalt road to suppress dust. After approximately two hours, the loaded trucks were once again led out by a water truck and the departure along Todd Road totaled approximately nine minutes. All loaded truck trailers were covered by a secured tarpaulin. There was a second set of trucks that followed the same procedure described above starting at approximately 11:40 am. The total time that the trucks convoyed past the residential homes during the day was approximately 40 minutes.
- Effective dust control management techniques were in place and observed. The results of the analytical air report show that dust levels created by truck movement along Todd Road are below those specified in the Site's Environmental Impact Report (EIR). Further comparisons of the results indicate that dust levels (both nuisance and airborne lead) are well below what the California Division of Occupational Safety and Health (Cal OSHA) specifies as harmful to workers.
- Sound level measurements were collected at multiple locations during the truck convoy along Todd Road and found all cases to be below Cal OSHA specified standards and within typical daily traffic noise on neighborhood streets. Furthermore the average decibels reading over

the eight hour sample collection period ranged from 40 to 55 decibels and the City of Novato General Plan requires an average of 60 decibels over a 24 hour period. The noise dosimeters and sound level meter measured 66 to 71 decibels (A-scale) during the truck convoys.

- Noise dosimeter and sound level meter monitoring found that the residential community would not be expected to be exposed to noise levels in excess of typical neighborhood traffic noise nor what is considered potentially harmful (85 decibels) as specified by Cal/OSHA's noise action level limits.

SCOPE OF WORK

The specific scope of work included:

- Review of the applicable OSHA and City of Novato regulations and EIR specifications
- Observe work practices
- Collect noise measurements using a calibrated sound level meter and noise dosimeters
- Collect air samples following the National Institute for Occupational Safety and Health (NIOSH) guidelines and have the samples analyzed by a State Certified and professionally accredited laboratory. The laboratory is accredited by the American Industrial Hygiene Association.
- Preparation of this letter report to summarize the results of the on site evaluation and to make recommendations as necessary

INTRODUCTION/BACKGROUND

The current operations at the former Hamilton Air Force Base include the Wetlands Restoration and the BRAC Inboard Remedial Action projects. The scope of the project activities observed was typical grading and excavation construction operations. Operations and job tasks include the use of heavy equipment (excavators, water trucks and dump trucks) to build earthen structures and remove soil from the Site. A total of 24 tractor trailer trucks were involved (one water truck and 23 trucks to haul soil) the day of the sampling event. EnviroNova conducted both air and noise monitoring on May 31, 2006 to assess the hauling of materials to and from the operations.

DUST EXPOSURE MONITORING AND SUSPECT CONTAMINANTS

The primary objective of the air monitoring was to characterize and quantify residential exposure to total nuisance dust and airborne lead during the "short term" transport operations.

Sampling and analytical methods were in accordance with those specified by NIOSH and the Occupational Safety and Health Administration (OSHA). NIOSH and OSHA sampling and analytical methodologies were selected as indicators of exposure due to the very short term exposures created by the nature of the operations. The specific method followed for each sample is listed in Table 1. The samples were collected using low flow sampling pumps operating at a constant flow rate. The pumps were calibrated before and after the sampling period using an electronic primary standard. Air samples were collected on media specified by the applicable NIOSH and/or OSHA methods, supplied by ASBESTOS TEM LABORATORIES, Inc., Berkeley, California. ASBESTOS TEM LABORATORIES is an American Industrial Hygiene Association (AIHA) accredited laboratory.

Area samples were collected by placing the air sampling pumps with specified collection media at strategic locations in the work area. Area samples were taken at approximately a height of seven to eight feet above ground level. (See Photos 1-5 and Residential Layout). Following sample collection, the samples were packaged and under Chain of Custody procedures delivered to ASBESTOS TEM LABORATORIES for analysis.

ANALYTICAL RESULTS AND DATA EVALUATION

AIR MONITORING/TOTAL DUST

The following table lists the industrial hygiene sampling and analytical methods (or equivalent NIOSH, OSHA, and other validated methods) that were used for this project:

Contaminant	Method
Total Dust	NIOSH 0500
Lead	NIOSH 7082

Measured levels of airborne contaminants were compared to the applicable Cal/OSHA Permissible Exposure Levels (PELs). The specified PEL for the contaminants sampled are identified in Table 1.

Twenty-five samples were collected and analyzed for dust (total level). Twenty-four of the twenty-five samples had reported concentrations below the Cal/OSHA Nuisance Dust PEL of five milligrams per cubic meter of air (mg/m^3). Based on EnviroNova's observations of the work practices and use of the water truck, it is unclear as why one sample had elevated levels above the PEL. No samples results reported levels of inorganic lead at or above the Action Level for lead of 30 micrograms per cubic meter of air (ug/m^3). The results for the dust and lead sampling are on Table 1 through 3.

NOISE MONITORING AND EVALUATION

Sound level meter and noise dosimeters measurements were collected while the trucks were entering and leaving the Site. Thirteen trucks arrived onsite in a convoy type manner at approximately at 8:05 am. EnviroNova observed that it took approximately nine minutes for the trucks to travel past the residential homes; the trucks then proceeded to the loading area 2.5 miles away. The trucks were led on the road in a convoy by a water truck dispersing water on the asphalt road to suppress dust. After approximately two hours, the fully loaded trucks with covered trailers were led out by a water truck and the departure along Todd Road totaled approximately nine minutes starting at approximately 11:40 am.

Similarly, ten trucks arrived in a convoy type manner at approximately 11:55 am and departed from the Site at approximately 1:30 pm. The total time that both sets of trucks traveled past the residential homes during the day was approximately 40 minutes.

Noise monitoring using a personal audio dosimeter was conducted by Mr. Trinidad of EnviroNova as he performed his representative inspection and maintenance activities. His activities brought him in very near proximity to the truck convoy and hauling operations. The audio dosimeter measurement was conducted using a Metrosonics personal audio dosimeter. The

average decibels reading over the eight hour sample collection period ranged from 55 decibels and the City of Novato General Plan requires an average of 60 decibels over a 24 hour period. The noise dosimeters and sound level meter measured 66 to 71 decibels during the truck convoys. The results are presented in Table 4.

EnviroNova also observed during the noise monitoring that dogs were barking near the area of the noise dosimeters which recorded readings of approximately 72 decibels. As a comparison, EnviroNova collected noise measurements along on Hamilton Drive. The measurements taken during regular vehicles traffic on the street ranged from 68 decibels to 75.9 decibels. The reading taken while vehicles were not on the street showed a 53 decibel range.

Sound level meter readings were conducted at several locations as specified below with a calibrated sound level meter by Xtech Serial #000315413. Both the noise dosimeter and sound level meter instruments were set to measure noise levels in the A-weighted decibels range (dBA).

Standards and Discussion

EnviroNova compared the measured noise readings to the Cal/OSHA noise exposure levels. The Cal/OSHA PEL is specified as 90 decibels for an equivalent eight hour TWA worker exposure and as measured on the A-weighted scale of a sound level meter set for slow response. For each additional five dBA above 90 dBA, the permissible time of exposure is reduced by one half. The action level for noise is established as 85 dBA (equivalent 8-hour TWA exposure).

The Cal/OSHA standard is specified in T8-CCR, Article 105, "Control of Noise Exposure" (sections 5095 through 5100 of T8-CCR).

The table below indicates Cal /OSHA's permissible noise exposure limits.

Permissible Noise Exposures

Duration (hours)	Sound Level dBA (Slow Response)
8	90
6	92
4	95
3	97
2	100
1-1/2	102
1	105
1/2	110
1/4 or less	115

Note: Exposures to impulsive/impact noise shall not exceed 140 dB peak sound pressure level.

As noted above, noise monitoring using personal audio dosimeters and a sound level meter was conducted during heavy equipment operations. The audio dosimetry measurements were conducted using personal audio dosimeters that were set to measure noise levels in the A-weighted decibels range (dBA).

The City of Novato has Noise and Land Use Compatibility Standards (Source City of Novato General Plan 2000). Below is the typical noise levels listed in the General Plan of the City of Novato.

SF Table 2: Typical Noise Levels *At a Given Distance from Noise Source*

	A-Weighted Sound Level in Decibels	*Noise Environments*	*Subjective Impression*
Civil Defense Siren (100')	130		
Jet Takeoff (200')	120		Pain Threshold
Rock Music Concert	110		
Pile Driver (50')	100		Very Loud
Ambulance Siren	90		
Pneumatic Drill (50')	80		
Freeway (100')	70		Moderately Loud
Vacuum Cleaner (10')	60		
Light Traffic (100')	50		
Large Transformer (200')	40		Quiet
Soft Whisper (5')	30		
Recording Studio	20		
Threshold of Hearing	10		
	0		

Source: Illingworth & Rodkin, Inc., Acoustical Engineers, 1995

The City of Novato has established noise level standards for areas within the city. The following table should be used to evaluate the compatibility. However these standards are based off a 24 hour period and do not reflect any single noise source.

Land Use Category	**Maximum allowable noise level**
Residential Development	up to 60 dB
Transient Lodging: Motel and Hotel	up to 60 dB
School, Library, Church, Hospital and Nursing Home	up to 60 dB
Auditorium, Concert Hall, Amphitheater	up to 70 dB
Sports Arena, Outdoor Spectator Sports	up to 70 dB
Playgrounds, Neighborhood Parks, Open Space	up to 65 dB
Golf Course, Cemetery	up to 70 dB
Office Building, Business, Commercial & Professional	up to 70 dB
Industrial, Manufacturing, Utilities	up to 70 dB

Source: City of Novato General Plan 2000

Noise dosimetry was conducted during the six hour period of the heavy equipment arriving and departing the residential community. Dosimetry measurements ranged from exposure below the Cal/OSHA action level (85 dBA) to exposure approaching the PEL (90 dBA).

The truck convoy for the entire Site activities during the day of observation and measurement totaled approximately 40 minutes represent a short term exposure potential to noise. It was found that sound level measurements were well below Cal/OSHA standards and did not exceed the City of Novato standards (60 dBA day/night) based on the average readings. It is important to recognize that the City of Novato standards are based upon a 24 hour period (day/night), not extremely short term exposures as occurs with the identified construction work activities. It would be expected that if a 24 hour noise measurement was taken, the overall noise level would average far below the City of Novato standards based on EnviroNova's eight hour average readings.

LIMITATIONS

EnviroNova's participation in this investigation was limited to the site described in this report. The accuracy of the observations of any investigation is dependent on the accuracy and completeness of information provided by on-site personnel. The EnviroNova assumes that information obtained from the Site was accurate and complete. It was beyond the scope of this investigation to independently verify the accuracy or completeness of any such information. In addition, observations made during the investigation are representative of existing conditions at the time of the investigation and do not reflect facility conditions at other times.

The EnviroNova presents this letter report to provide information that will be useful to your continued efforts to provide a safe and healthy work environment. Should you have any questions regarding this letter report, please contact Basil Falcone.

Yours truly,

Basil Falcone, M.S., REA, CAC
Senior Principal Environmental Scientist
President

Richard Trinidad
Senior Environmental Scientist
Vice President

Pete Rice, CIH, CSP, REHS
Senior Principal Industrial Hygienist
Quality Control Reviewer

Enclosures: Table 1-4
Photos 1-5
Field Sampling Locations
Analytical Report

TABLE 1-4

ENVIRONOVA

Table 1 Air Sampling Data Log

Client: _____BRAC Hamilton_____ Job Number: __0819053 Date: __5-31-06__

Building: _____ Area_____ Gillibrator Serial# 010178-5

Name or Location	SS# or ID# or Description	Sample Type or Analyte	Sample #	TIME					RATE			VOLUME	Results (mg/m^3)	OSHA Standard Particulates (PEL)	NIOSH Method
				Start Date	Stop Date	Start Time	Stop Time	Total Time (minutes)	Start Rate	Stop Rate	Average Rate (l / min)	Volume (liters)			
Hamilton		PVC Filter	1	5/31/2006	5/31/2006	8:00	9:00	60	2.0720	2.0110	2.0415	122.490	16 mg/m3	5 mg/m^3	500
Hamilton		PVC Filter for Lead	2	5/31/2006	5/31/2006	8:00	14:00	360	1.5480	1.4470	1.4975	539.100	<3.7 ug/m3	50 ug/m3	7082/7105
Hamilton		PVC Filter	3	5/31/2006	5/31/2006	8:05	9:07	62	1.9480	1.9390	1.9435	120.497	<0.25 mg/m3	5 mg/m^3	500
Hamilton		PVC Filter for Lead	4	5/31/2006	5/31/2006	8:05	14:02	357	1.5450	1.5990	1.5720	561.204	<3.6 ug/m3	50 ug/m3	7082/7105
Hamilton		PVC Filter	5	5/31/2006	5/31/2006	8:20	9:20	60	1.9490	1.9470	1.9480	116.880	<0.26 mg/m3	5 mg/m^3	500
Hamilton		PVC Filter for Lead	6	5/31/2006	5/31/2006	8:20	14:20	360	1.5530	1.5150	1.5340	552.240	<3.6 ug/m3	50 ug/m3	7082/7105
Hamilton		PVC Filter	7	5/31/2006	5/31/2006	8:35	9:35	60	1.9980	1.9940	1.9960	119.760	<0.25 mg/m3	5 mg/m^3	500
Hamilton		PVC Filter for Lead	8	5/31/2006	5/31/2006	8:35	14:35	360	1.4990	1.4460	1.4725	530.100	<3.8 ug/m3	50 ug/m3	7082/7105
Hamilton		PVC Filter for Lead	9	5/31/2006	5/31/2006	8:40	14:40	360	1.5020	1.4850	1.4935	537.660	<3.7 ug/m3	50 ug/m3	7082/7105
Hamilton		PVC Filter	10	5/31/2006	5/31/2006	8:40	9:40	60	2.0110	2.0010	2.0060	120.360	<0.25 mg/m3	5 mg/m^3	500
Hamilton		PVC Filter	11	5/31/2006	5/31/2006	9:05	10:05	60	2.0110	2.0010	2.0060	120.360	<0.25 mg/m3	5 mg/m^3	500
Hamilton		PVC Filter	12	5/31/2006	5/31/2006	9:10	10:10	60	1.9580	1.9390	1.9485	116.910	<0.26 mg/m3	5 mg/m^3	500
Hamilton		PVC Filter	13	5/31/2006	5/31/2006	9:20	10:15	55	1.9470	1.9250	1.9360	106.480	0.75 mg/m3	5 mg/m^3	500

Collected By: Richard Trinidad

Table 2 Air Sampling Data Log

ENVIRONOVA

Client: BRAC Hamilton | Job Number: 0819053 | Date: 5-31-06

Building: | Area: | Gillibrator | Serial# 010178-5

				TIME					RATE			VOLUME			
Name or Location	SS# or ID# or Description	Sample Type or Analyte	Sample #	Start Date	Stop Date	Start Time	Stop Time	Total Time (minutes)	Start Rate	Stop Rate	Average Rate (l / min)	Volume (liters)	**Results** (mg/m^3)	**OSHA Standard Particulates (PEL)**	**NIOSH Method**
Hamilton		PVC Filter	14	5/31/2006	5/31/2006	9 35	10.35	60	1.9940	1.9900	1.9920	119 520	<0.25 mg/m3	5 mg/m^3	500
Hamilton		PVC Filter	15	5/31/2006	5/31/2006	9:40	10 40	60	2 0120	1.9980	2.0050	120.300	<0.25 mg/m3	5 mg/m^3	500
Hamilton		PVC Filter	16	5/31/2006	5/31/2006	10 10	11:10	60	2.0010	1 9740	1 9875	119 250	<0 25 mg/m3	5 mg/m^3	500
Hamilton		PVC Filter	17	5/31/2006	5/31/2006	10 15	11 15	60	1 9970	1.9920	1 9945	119 670	<0 25 mg/m3	5 mg/m^3	500
Hamilton		PVC Filter	18	5/31/2006	5/31/2006	10 20	11.20	60	1 9250	1 9210	1 9230	115 380	<0.26 mg/m3	5 mg/m^3	500
Hamilton		PVC Filter	19	5/31/2006	5/31/2006	10.35	11:45	70	1.9900	1.9710	1 9805	138.635	<0.22 mg/m3	5 mg/m^3	500
Hamilton		PVC Filter	20	5/31/2006	5/31/2006	10:40	11:55	75	2.0010	1.9750	1.9880	149.100	<0.2 mg/m3	5 mg/m^3	500
Hamilton		PVC Filter	21	5/31/2006	5/31/2006	11:15	12:20	65	1 9970	1.9860	1.9915	129.448	<0.23 mg/m3	5 mg/m^3	500
Hamilton		PVC Filter	22	5/31/2006	5/31/2006	11:20	12:25	65	2.0000	1.9310	1 9655	127 758	<0.23 mg/m3	5 mg/m^3	500
Hamilton		PVC Filter	23	5/31/2006	5/31/2006	12:00	13:00	60	2.0010	1.9920	1.9965	119.790	0 33 mg/m3	5 mg/m^3	500
Hamilton		PVC Filter	24	5/31/2006	5/31/2006	11:50	12:50	60	1.9900	1 9480	1 9690	118 140	0.42 mg/m3	5 mg/m^3	500
Hamilton		PVC Filter	25	5/31/2006	5/31/2006	11:55	12.55	60	2.0250	1.9820	2.0035	120 210	<0 25 mg/m3	5 mg/m^3	500
Hamilton		PVC Filter	26	5/31/2006	5/31/2006	13:05	14 11	66	2 0200	1.9920	2.0060	132.396	<0.23 mg/m3	5 mg/m^3	500
Collected By:	Richard Trinidad														

Richard Trinidad

Table 3 Air Sampling Data Log

ENVIRONOVA

Client: BRAC Hamilton | Job Number: 0819053 | Date: 5-31-06

Building: _____ Area: _____ | Gillibrator | Serial# 010178-5

				TIME					RATE			VOLUME			
Name or Location	SS# or ID# or Description	Sample Type or Analyte	Sample #	Start Date	Stop Date	Start Time	Stop Time	Total Time (minutes)	Start Rate	Stop Rate	Average Rate (l / min)	Volume (liters)	**Results** (mg/m^3)	**OSHA Standard Particulates (PEL)**	**NIOSH Method**
Hamilton		PVC Filter	27	5/31/2006	5/31/2006	13:20	14:24	64	2.0040	2.0010	2.0025	128.160	<0.23 mg/m3	5 mg/m^3	500
Hamilton		PVC Filter	28	5/31/2006	5/31/2006	13:30	14:30	60	2.0480	2.0310	2.0395	122.370	<0.25 mg/m3	5 mg/m^3	500
Hamilton		PVC Filter	29	5/31/2006	5/31/2006	13:35	14:45	70	2.0410	2.0010	2.0210	141.470	<0.21 mg/m3	5 mg/m^3	500
Hamilton		PVC Filter	30	5/31/2006	5/31/2006	13:40	14:42	62	1.9950	1.9890	1.9920	123.504	<0.24 mg/m3	5 mg/m^3	500
Collected By	Richard Trinidad														

checked BJF

Table 4 Transferred Field Notes

Noise Dosimeter A	#2591		Sound Level Meter					
Calibrated:			13 Trucks		8:05am Arriving		9 min Completed Run	
Run Time: 360min			13 Trucks				9 min spike in sound levels	
Start Time: 8:00 am			No Trucks	45-55dB				
End Time: 2:00pm			Area 1	66-67dB	1st Wave of Trucks			
LAVG: 55.5 dB			Area 2	70 dB	1st Wave of Trucks			
DOSE: 61%			Area 3	66 dB	1st Wave of Trucks			
Max: 105.6 dB	due to movement							
RT: 360 min	of noise dosimeter							
			10 Trucks		1:20pm Arriving		Completed Run	
Noise Dosimeter B	#2598		No Trucks	45-55dB				
Calibrated:			Area 2	68-71dB	2nd Wave of Trucks			
Run Time: 360min								
Start Time: 8:35am			**Hamilton Rd & Skate Park**					
End Time: 2:35pm			Sound Level meter		3:00pm			
LAVG: 40.3 dB			Road	Car Passing	No Cars			
DOSE: NA				72.3 dB	55.1 dB			
Max: 74.0 dB				71.1 dB	53.1 dB			
RT: 360 min				75.1 dB	54.0 dB			
Noise Dosimeter	#2590		Skate Park	Kids	No Kids			
Calibrated:				68.9 dB	52.9 dB			
Run Time: 360min				75.9 dB	64 dB			
Start Time: 8:40am								
End Time: 2:40pm			Other Factors					
LAVG: 40.3 dB			Dog Near Area 2		72 dB			
DOSE: NA			No Dog other areas		46-50 db			
Max: 85.0 dB								
RT: 360 min								

Photo 1-5

Photo #1

Photo #2

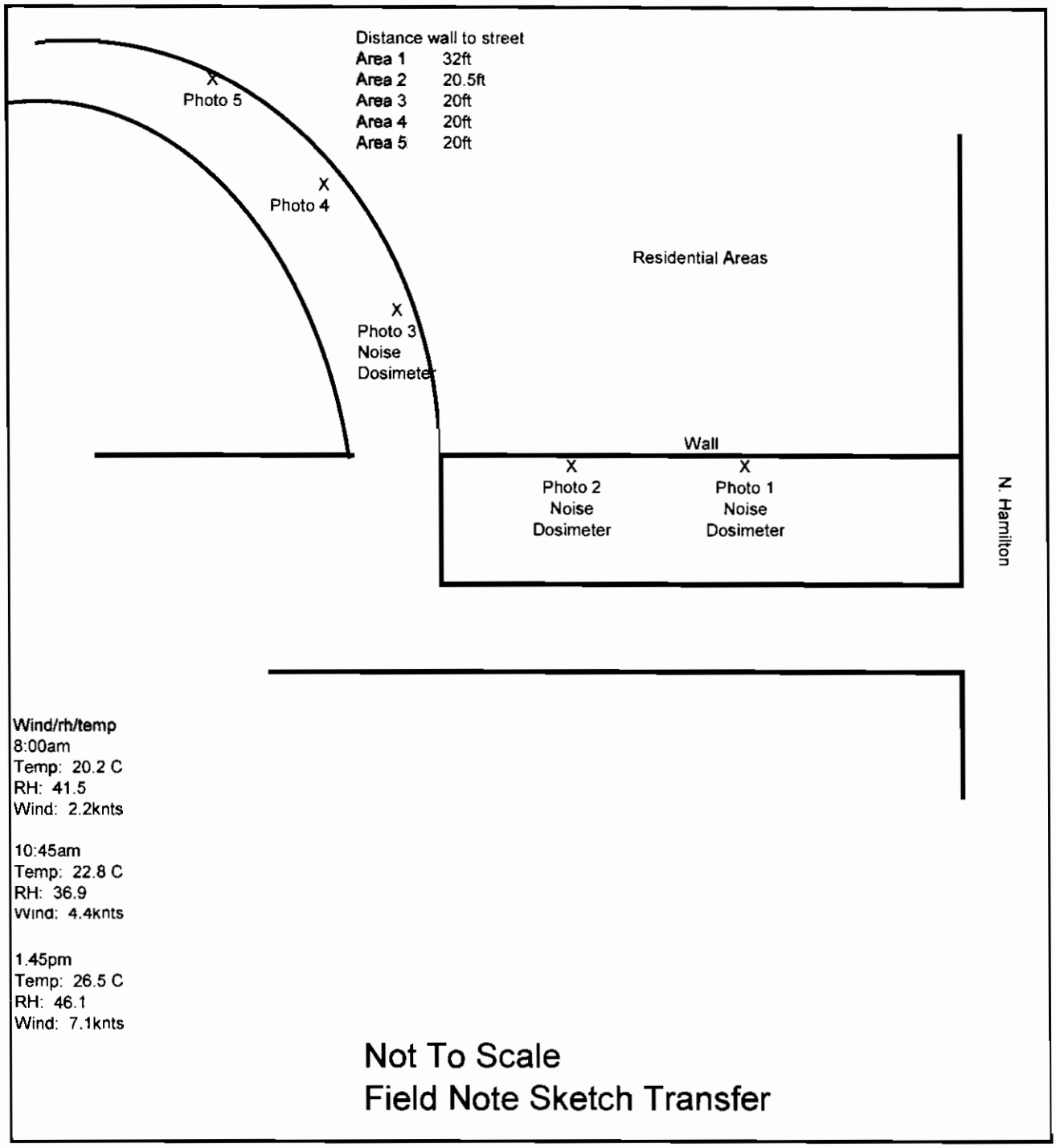
Photo #3

Photo #4

Photo #5

Field Sampling Locations

Field Sampling Locations



Analytical Reports

ASBESTOS TEM LABORATORIES, INC.

Modified NIOSH Method 7082
Atomic Absorption Spectroscopy
Metals Analysis Report

Laboratory Job # **1168-00001**

630 Bancroft Way
Berkeley, CA 94710
(510) 704-8930
FAX (510) 704-8429

ASBESTOS TEM LABORATORIES, INC

Accredited by
U.S. Dept. of Commeree
NVLAP
CA DOHS ELAP

Jun/08/2006

Mr. Richard Trinidad
Enviro Nova, LLC
30 Pamaron Way, Suite 203
Novato, CA 94949

RE: LABORATORY JOB # 1168-00001
Atomic Absorption Spectroscopy analytical results for 5 air sample(s).
Job Site:
Job No.:

Enclosed please find results for the atomic absortion spectroscopy (AA) metals analysis of one or more air samples. Sample preparation procedures were performed using a NIOSH Method 7082 digestion method and EPA 7420 Flame Atomic Absorption Spectroscopy analytical method.

Prior to analysis, samples are checked for damage and disruption of the chain-of-custody seal. Samples are then logged-in, each given a unique laboratory number, and a hard copy containing all pertinent information is generated. This, and all other relevant paper work are kept with each sample throughout the analytical procedures to assure proper analysis.

Air sampling cassettes are opened, and filters are removed and transferred to a clean beaker. The beakers are taken to a fume hood, heated at ~95 Deg. C, refluxed with Nitric acid to solubilize all metals on the contained filter, and treated with Hydrogen Peroxide to oxidize any organic binder present in the sample material. The sample is then transferred to a 10ml volumetric flask with high purity water added to give a precise solution volume.

AA analysis is performed on a microprocessor controlled Perkin Elmer 3100 atomic absorption spectrophotometer operating in the flame mode. Samples are diluted as needed to allow reading of concentrations in the spectrophotometer's linear range. QC analyses are performed along with each sample batch to ensure accurate analytical determinations. Data is compiled into a standard report format and subjected to a thorough quality assurance check before the information is released to the client. Note: Sample results are not corrected for contamination based on the field blank(s) or other analytical blank(s).

Important note: AIHA accreditation and good laboratory practice require the analysis of field blanks collected in parallel to all samples collected in the field as a check against media contamination from the manufacturer or in the field. Wherever possible, Asbestos TEM Laboratories highly recommends the submission of field blanks with each sample set.

Sincerely Yours,

Laboratory Manager
ASBESTOS TEM LABORATORIES, INC.

--- Results for routine quality control samples run in parallel to the samples reported here were within acceptable limits. These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. ---

ATOMIC ABSORPTION SPECTROSCOPY
AIR SAMPLE METALS ANALYSIS REPORT
NIOSH 7082 Digestion / EPA 7420 Analysis Methods

Contact: Mr. Richard Trinidad
Address: Enviro Nova, LLC
30 Pamaron Way, Suite 203
Novato, CA 94949

Samples Submitted: 5
Samples Analyzed: 5
Job Site · No.

Report No.: **056009**
Date Submitted: Jun-05-06
Date Reported: Jun-06-06

SAMPLE ID	METAL	SAMPLE RESULT	DETECTION LIMIT	LOCATION / DESCRIPTION		
2 Lab ID # 1168-00001-001	Pb	< 3.7 ug/cu.m	3.7 ug/cu.m	Sampling Date May-31-06	Analysis Date Jun-06-06	Volume(l) 539.1
4 Lab ID # 1168-00001-002	Pb	< 3.6 ug/cu.m	3.6 ug/cu.m	Sampling Date May-31-06	Analysis Date Jun-06-06	Volume(l) 561.2
6 Lab ID # 1168-00001-003	Pb	< 3.6 ug/cu.m	3.6 ug/cu.m	Sampling Date May-31-06	Analysis Date Jun-06-06	Volume(l) 552.2
8 Lab ID # 1168-00001-004	Pb	< 3.8 ug/cu.m	3.8 ug/cu.m	Sampling Date May-31-06	Analysis Date Jun-06-06	Volume(l) 530.1
9 Lab ID # 1168-00001-005	Pb	< 3.7 ug/cu.m	3.7 ug/cu.m	Sampling Date May-31-06	Analysis Date Jun-06-06	Volume(l) 537.7
Lab ID #				Sampling Date	Analysis Date	Volume(l)
Lab ID #				Sampling Date	Analysis Date	Volume(l)
Lab ID #				Sampling Date	Analysis Date	Volume(l)
Lab ID #				Sampling Date	Analysis Date	Volume(l)
Lab ID #				Sampling Date	Analysis Date	Volume(l)

ug - micrograms **1% = 10,000 ppm** **1ppm = 1 mg/Kg** **Detection Limit is calculated based on LSU**

Lab QC Reviewer _____ **Analyst** _____

ENVIRONOVA

Air Sampling Data Log

Client: ____Hamilton_____ Job Number: __ Date: __5-31-06__

Building: _____ Area_____ Gillibrator Serial# 010178-5

Name or Location	SS# or ID# or Description	Sample Type or Analyte	Sample #	TIME					RATE			VOLUME	Results (mg/m^3)	OSHA Standard Particulates (PEL)	NIOSH Method
				Start Date	Stop Date	Start Time	Stop Time	Total Time (minutes)	Start Rate	Stop Rate	Average Rate (l / min)	Volume (liters)			
Hamilton		PVC Filter	1	5/31/2006	5/31/2006	8:00	9:00	60	2.0720	2.0110	2.0415	122.490		5 mg/m^3	500
Hamilton		PVC Filter for Lead	2	5/31/2006	5/31/2006	8:00	14:00	360	1.5480	1.4470	1.4975	539.100		0.1 mg/m3	7082/7105
Hamilton		PVC Filter	3	5/31/2006	5/31/2006	8:05	9:07	62	1.9480	1.9390	1.9435	120.497		5 mg/m^3	500
Hamilton		PVC Filter for Lead	4	5/31/2006	5/31/2006	8:05	14:02	357	1.5450	1.5990	1.5720	561.204		0.1 mg/m3	7082/7105
Hamilton		PVC Filter	5	5/31/2006	5/31/2006	8:20	9:20	60	1.9490	1.9470	1.9480	116.880		5 mg/m^3	500
Hamilton		PVC Filter for Lead	6	5/31/2006	5/31/2006	8:20	14:20	360	1.5530	1.5150	1.5340	552.240		0.1 mg/m3	7082/7105
Hamilton		PVC Filter	7	5/31/2006	5/31/2006	8:35	9:35	60	1.9980	1.9940	1.9960	119.760		5 mg/m^3	500
Hamilton		PVC Filter for Lead	8	5/31/2006	5/31/2006	8:35	14:35	360	1.4990	1.4460	1.4725	530.100		0.1 mg/m3	7082/7105
Hamilton		PVC Filter for Lead	9	5/31/2006	5/31/2006	8:40	14:40	360	1.5020	1.4650	1.4935	537.660		0.1 mg/m3	7082/7105
Hamilton		PVC Filter	10	5/31/2006	5/31/2006	8:40	9:40	60	2.0110	2.0010	2.0060	120.360		5 mg/m^3	500
Hamilton		PVC Filter	11	5/31/2006	5/31/2006	9:05	10:05	60	2.0110	2.0010	2.0060	120.360		5 mg/m^3	500
Hamilton		PVC Filter	12	5/31/2006	5/31/2006	9:10	10:10	60	1.9580	1.9390	1.9485	116.910		5 mg/m^3	500
Hamilton		PVC Filter	13	5/31/2006	5/31/2006	9:20	10:15	55	1.9470	1.9250	1.9360	106.480		5 mg/m^3	500

Collected By: ____ Richard Trinidad

	Date:	Time:
Relinquished By:	11am	6/5/06
Received By:		

05-05-USATT02 REVD

ASBESTOS TEM LABORATORIES, INC.

NIOSH Method 500
Air Filter Analysis Report

Laboratory Job # 1168-00002

630 Bancroft Way
Berkeley, CA 94710
(510) 704-8930
FAX (510) 704-8429

NIOSH 0500
AIR FILTER ANALYSIS REPORT

Contact:	Mr. Richard Trinidad	Samples Submitted:	25	Report No.	**56013**
Client:	Enviro Nova, LLC 30 Pamaron Way, Suite 203 Novato, CA 94949	Samples Analyzed: Job Site / No. :	25	Date Submitted: Date Reported:	Jun-05-06 Jun-06-06

SAMPLE ID	SAMPLE RESULT	DETECTION LIMIT	LOCATION / DESCRIPTION		
1 Lab ID # 1168-2-1	**16** **mg/cu.m**	**0.25** **mg/cu.m**	Volume (L) 122.5	Sampling Date May-31-06	Analysis Date Jun-06-06
3 Lab ID # 1168-2-2	**< 0.25** **mg/cu.m**	**0.25** **mg/cu.m**	Volume (L) 120.5	Sampling Date May-31-06	Analysis Date Jun-06-06
5 Lab ID # 1168-2-3	**< 0. 26** **mg/cu.m**	**0.26** **mg/cu.m**	Volume (L) 116.9	Sampling Date May-31-06	Analysis Date Jun-06-06
7 Lab ID # 1168-2-4	**<0.25** **mg/cu.m**	**0.25** **mg/cu.m**	Volume (L) 119.8	Sampling Date May-31-06	Analysis Date Jun-06-06
10 Lab ID # 1168-2-5	**< 0.25** **mg/cu.m**	**0.25** **mg/cu.m**	Volume (L) 120.4	Sampling Date May-31-06	Analysis Date Jun-06-06
11 Lab ID # 1168-2-6	**< 0.25** **mg/cu.m**	**0.25** **mg/cu.m**	Volume (L) 120.4	Sampling Date May-31-06	Analysis Date Jun-06-06
12 Lab ID # 1168-2-7	**< 0.26** **mg/cu.m**	**0.26** **mg/cu.m**	Volume (L) 117	Sampling Date May-31-06	Analysis Date Jun-06-06
13 Lab ID # 1168-2-8	**0.75** **mg/cu.m**	**0.28** **mg/cu.m**	Volume (L) 106.5	Sampling Date May-31-06	Analysis Date Jun-06-06
14 Lab ID # 1168-2-9	**< 0.25** **mg/cu.m**	**0.25** **mg/cu.m**	Volume (L) 119.5	Sampling Date May-31-06	Analysis Date Jun-06-06
15 Lab ID # 1168-2-10	**< 0.25** **mg/cu.m**	**0.25** **mg/cu.m**	Volume (L) 120.3	Sampling Date May-31-06	Analysis Date Jun-06-06

Lab QC Reviewer _____ **Analyst** _____

ASBESTOS TEM LABORATORIES, INC. 630 BANCROFT WAY, BERKELEY CA 94710 (510) 704-8930
with offices in Reno (775)359-3377

NIOSH 0500
AIR FILTER ANALYSIS REPORT

Contact: Mr. Richard Trinidad
Samples Submitted: 25
Report No. **56013**

Client: Enviro Nova, LLC
30 Pamaron Way, Suite 203
Novato, CA 94949
Samples Analyzed: 25
Job Site / No. :
Date Submitted: Jun-05-06
Date Reported: Jun-06-06

SAMPLE ID	SAMPLE RESULT	DETECTION LIMIT	LOCATION / DESCRIPTION		
16	**< 0.25**	**0.25**			
	mg/cu.m	**mg/cu.m**	Volume (L)	Sampling Date	Analysis Date
Lab ID # 1168-2-11			119.2	May-31-06	Jun-06-06
17	**< 0.25**	**0.25**			
	mg/cu.m	**mg/cu.m**	Volume (L)	Sampling Date	Analysis Date
Lab ID # 1168-2-12			119.7	May-31-06	Jun-06-06
18	**< 0.26**	**0.26**			
	mg/cu.m	**mg/cu.m**	Volume (L)	Sampling Date	Analysis Date
Lab ID # 1168-2-13			115.4	May-31-06	Jun-06-06
19	**< 0.22**	**0.22**			
	mg/cu.m	**mg/cu.m**	Volume (L)	Sampling Date	Analysis Date
Lab ID # 1168-2-14			138.6	May-31-06	Jun-06-06
20	**< 0.2**	**0.2**			
	mg/cu.m	**mg/cu.m**	Volume (L)	Sampling Date	Analysis Date
Lab ID # 1168-2-15			149.1	May-31-06	Jun-06-06
21	**< 0.23**	**0.23**			
	mg/cu.m	**mg/cu.m**	Volume (L)	Sampling Date	Analysis Date
Lab ID # 1168-2-16			129.4	May-31-06	Jun-06-06
22	**< 0.23**	**0.23**			
	mg/cu.m	**mg/cu.m**	Volume (L)	Sampling Date	Analysis Date
Lab ID # 1168-2-17			127.8	May-31-06	Jun-06-06
23	**0.33**	**0.25**			
	mg/cu.m	**mg/cu.m**	Volume (L)	Sampling Date	Analysis Date
Lab ID # 1168-2-18			119.8		Jun-06-06

Lab QC Reviewer **Analyst**

ASBESTOS TEM LABORATORIES, INC. 630 BANCROFT WAY, BERKELEY CA 94710 (510) 704-8930
with offices in Reno (775)359-3377

NIOSH 0500
AIR FILTER ANALYSIS REPORT

Contact:	Mr. Richard Trinidad	Samples Submitted:	25	Report No.	**56013**
Client:	Enviro Nova, LLC 30 Pamaron Way, Suite 203 Novato, CA94949	Samples Analyzed: Job Site / No. :	25	Date Submitted: Date Reported:	Jun-05-06 Jun-06-06

SAMPLE ID	SAMPLE RESULT	DETECTION LIMIT	LOCATION / DESCRIPTION		
24 Lab ID # 1168-2-19	**0.42** **mg/cu.m**	**0.25** **mg/cu.m**	Volume (L) 118.1	Sampling Date May-31-06	Analysis Date Jun-06-06
25 Lab ID # 1168-2-20	**< 0.25** **mg/cu.m**	**0.25** **mg/cu.m**	Volume (L) 120.2	Sampling Date May-31-06	Analysis Date Jun-06-06
26 Lab ID # 1168-2-21	**< 0. 23** **mg/cu.m**	**0.23** **mg/cu.m**	Volume (L) 132.4	Sampling Date May-31-06	Analysis Date Jun-06-06
27 Lab ID # 1168-2-22	**<0.23** **mg/cu.m**	**0.23** **mg/cu.m**	Volume (L) 128.2	Sampling Date May-31-06	Analysis Date Jun-06-06
28 Lab ID # 1168-2-23	**< 0.25** **mg/cu.m**	**0.25** **mg/cu.m**	Volume (L) 122.4	Sampling Date May-31-06	Analysis Date Jun-06-06
29 Lab ID # 1168-2-24	**< 0.21** **mg/cu.m**	**0.21** **mg/cu.m**	Volume (L) 141.5	Sampling Date May-31-06	Analysis Date Jun-06-06
30 Lab ID # 1168-2-25	**< 0.24** **mg/cu.m**	**0.24** **mg/cu.m**	Volume (L) 123.5	Sampling Date May-31-06	Analysis Date Jun-06-06
Lab ID #			Volume (L)	Sampling Date	Analysis Date
Lab ID #			Volume (L)	Sampling Date	Analysis Date
Lab ID #			Volume (L)	Sampling Date	Analysis Date

Lab QC Reviewer _____ **Analyst** _____

ASBESTOS TEM LABORATORIES, INC. 630 BANCROFT WAY, BERKELEY CA 94710 (510) 704-8930
with offices in Reno (775)359-3377

ENVIRONOVA

Air Sampling Data Log

Client: Hamilton Job Number: Date: 5-31-06

Building: Area Gillibrator Serial# 010178-5

Name or Location	SS# or ID# or Description	Sample Type or Analyte	Sample #	TIME					RATE			VOLUME	Results (mg/m³)	OSHA Standard Particulates (PEL)	NIOSH Method
				Start Date	Stop Date	Start Time	Stop Time	Total Time (minutes)	Start Rate	Stop Rate	Average Rate (l / min)	Volume (liters)			
Hamilton		PVC Filter	1	5/31/2006	5/31/2006	8:00	9:00	60	2.0720	2.0110	2.0415	122.490		5 mg/m³	500
Hamilton		PVC Filter for Lead	2	5/31/2006	5/31/2006	8:00	14:00	360	1.5480	1.4470	1.4975	539.100		0.1 mg/m3	7082/7105
Hamilton		PVC Filter	3	5/31/2006	5/31/2006	8:05	9:07	62	1.9480	1.9390	1.9435	120.497		5 mg/m³	500
Hamilton		PVC Filter for Lead	4	5/31/2006	5/31/2006	8:05	14:02	357	1.5450	1.5990	1.5720	561.204		0.1 mg/m3	7082/7105
Hamilton		PVC Filter	5	5/31/2006	5/31/2006	8:20	9:20	60	1.9490	1.9470	1.9480	116.880		5 mg/m³	500
Hamilton		PVC Filter for Lead	6	5/31/2006	5/31/2006	8:20	14:20	360	1.5530	1.5150	1.5340	552.240		0.1 mg/m3	7082/7105
Hamilton		PVC Filter	7	5/31/2006	5/31/2006	8:35	9:35	60	1.9980	1.9940	1.9960	119.760		5 mg/m³	500
Hamilton		PVC Filter for Lead	8	5/31/2006	5/31/2006	8:35	14:35	360	1.4990	1.4460	1.4725	530.100		0.1 mg/m3	7082/7105
Hamilton		PVC Filter for Lead	9	5/31/2006	5/31/2006	8:40	14:40	360	1.5020	1.4850	1.4935	537.660		0.1 mg/m3	7082/7105
Hamilton		PVC Filter	10	5/31/2006	5/31/2006	8:40	9:40	60	2.0110	2.0010	2.0060	120.360		5 mg/m³	500
Hamilton		PVC Filter	11	5/31/2006	5/31/2006	9:05	10:05	60	2.0110	2.0010	2.0060	120.360		5 mg/m³	500
Hamilton		PVC Filter	12	5/31/2006	5/31/2006	9:10	10:10	60	1.9580	1.9390	1.9485	116.910		5 mg/m³	500
Hamilton		PVC Filter	13	5/31/2006	5/31/2006	9:20	10:15	55	1.9470	1.9250	1.9360	106.480		5 mg/m³	500

Collected By: Richard Trinidad

	Date:	Time:
Relinquished By:	11am	6/5/06
Received By: 06-05-06A11:02 RCVD		

ENVIRONOVA

Client: Hamilton | Job Number: | Date: 5-31-06

Building: | Area | Gilibrator | Serial# 010178-5

Name or Location	SS# or ID# or Description	Sample Type or Analyte	Sample #	TIME: Start Date	Stop Date	Start Time	Stop Time	Total Time (minutes)	RATE: Start Rate	Stop Rate	Average Rate (l / min)	VOLUME: Volume (liters)	Results (mg/m^3)	OSHA Standard Particulates (PEL)	NIOSH Method
Hamilton		PVC Filter	14	5/31/2006	5/31/2006	9:35	10:35	60	1.9940	1.9900	1.9920	119.520		5 mg/m^3	500
Hamilton		PVC Filter	15	5/31/2006	5/31/2006	9:40	10:40	60	2.0120	1.9980	2.0050	120.300		5 mg/m^3	500
Hamilton		PVC Filter	16	5/31/2006	5/31/2006	10:10	11:10	60	2.0010	1.9740	1.9875	119.250		5 mg/m^3	500
Hamilton		PVC Filter	17	5/31/2006	5/31/2006	10:15	11:15	60	1.9970	1.9920	1.9945	119.670		5 mg/m^3	500
Hamilton		PVC Filter	18	5/31/2006	5/31/2006	10:20	11:20	60	1.9250	1.9210	1.9230	115.380		5 mg/m^3	500
Hamilton		PVC Filter	19	5/31/2006	5/31/2006	10:35	11:45	70	1.9900	1.9710	1.9805	138.635		5 mg/m^3	500
Hamilton		PVC Filter	20	5/31/2006	5/31/2006	10:40	11:55	75	2.0010	1.9750	1.9880	149.100		5 mg/m^3	500
Hamilton		PVC Filter	21	5/31/2006	5/31/2006	11:15	12:20	65	1.9970	1.9860	1.9915	129.448		5 mg/m^3	500
Hamilton		PVC Filter	22	5/31/2006	5/31/2006	11:20	12:25	65	2.0000	1.9310	1.9655	127.758		5 mg/m^3	500
Hamilton		PVC Filter	23	5/31/2006	5/31/2006	12:00	13:00	60	2.0010	1.9920	1.9965	119.790		5 mg/m^3	500
Hamilton		PVC Filter	24	5/31/2006	5/31/2006	11:50	12:50	60	1.9900	1.9480	1.9690	118.140		5 mg/m^3	500
Hamilton		PVC Filter	25	5/31/2006	5/31/2006	11:55	12:55	60	2.0250	1.9820	2.0035	120.210		5 mg/m^3	500
Hamilton		PVC Filter	26	5/31/2006	5/31/2006	13:05	14:11	66	2.0200	1.9920	2.0060	132.396		5 mg/m^3	500
Collected By:	Richard Trinidad							00			0.0000	0.000			

	Date:	Time:
Relinquished By:	6/5/06	11am
Received By: ATEM		

06-05-06A11:03 RCVD

ENVIRONOVA

Client: Hamilton | Job Number: | Date: 5-31-06

Building: | Area | Gilibrator | Serial# 010178-5

Name or Location	SS# or ID# or Description	Sample Type or Analyte	Sample #	TIME					RATE			VOLUME	Results (mg/m^3)	OSHA Standard Particulates (PEL)	NIOSH Method
				Start Date	Stop Date	Start Time	Stop Time	Total Time (minutes)	Start Rate	Stop Rate	Average Rate (l / min)	Volume (liters)			
Hamilton		PVC Filter	27	5/31/2006	5/31/2006	13:20	14:24	64	2.0040	2.0010	2.0025	128.160		5 mg/m^3	500
Hamilton		PVC Filter	28	5/31/2006	5/31/2006	13:30	14:30	60	2.0480	2.0310	2.0395	122.370		5 mg/m^3	500
Hamilton		PVC Filter	29	5/31/2006	5/31/2006	13:35	14:45	70	2.0410	2.0010	2.0210	141.470		5 mg/m^3	500
Hamilton		PVC Filter	30	5/31/2006	5/31/2006	13:40	14:42	62	1.9950	1.9880	1.9920	123.504		5 mg/m^3	500
Collected By:	Richard Trinidad														

	Date:	Time:
Relinquished By:	6/5/06	11am
Received By: ATEAM / RT		

06-05-06A11:03 RC